

2008 Advanced Energy Technologies Making a Difference Today

Vehicle Technologies Program



| <i>Sell Serve</i> | <i>Cash or Credit</i> |
|-----------------------|---------------------------|
| <i>Regular</i> | 329 ⁹ |
| <i>Plus</i> | 339 ⁹ |
| <i>Premium</i> | 349 ⁹ |





Hybrid-Electric Vehicles

Hybrid-electric vehicles (HEVs) combine the benefits of combustion engines and electric motors. HEVs can improve fuel economy, increase power, or be used as additional auxiliary power for electronic devices and power tools. Several different types of hybrids are currently available, including mild-, full-, and dual-mode hybrids.



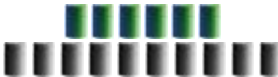


Diesel Vehicles

Diesel vehicles are more fuel efficient than similar-sized gasoline vehicles (about 25-35% more fuel efficient). Improved fuel injection and electronic engine control technologies increase fuel economy, improve acceleration, provide more towing capacity, and reduce emissions and noise to levels similar to gasoline vehicles.

Flexible-Fuel Vehicles

Flexible-fuel vehicles (FFVs) are designed to run on gasoline or a blend of up to 85% ethanol (E85) and gasoline. Except for a few engine and fuel system modifications, they are identical to gasoline-only models. FFVs typically get about 20-30% fewer miles per gallon when fueled with E85, but achieve a dramatic reduction in petroleum use.

| Chevrolet Impala FFV | | | | |
|----------------------------|--|------------|--|------------|
| 6 cyl, 3.5 L Auto 4-spd |  | | | |
| | E85 | | Gasoline | |
| Fuel | E85 | | Gasoline | |
| MPG | 14 city | 21 highway | 18 city | 29 highway |
| Energy Impact Score | 5.0 barrels/yr  (petroleum use) | | 15.6 barrels/yr  | |



Energy-Efficient Technologies are Available Now!

Many of the vehicles currently on display in dealer showrooms boast other fuel-saving technologies that can save you money today:

- Variable Valve Timing and Lift
- Cylinder Deactivation
- Continuously Variable or 6- and 7-speed transmissions
- Direct Fuel Injection (with turbocharging or supercharging)

On the following pages, you will find lists of currently available advanced technology hybrid-electric passenger cars and sport utility vehicles, diesel vehicles, and flexible-fuel vehicles.



| 2008 Hybrid Passenger Cars | | | | |
|---|----------------------|---------------|----------------|------------------------------|
| | EPA MPG ¹ | | | MPG Improvement ² |
| Toyota Prius - 4 cyl, 1.5 L, Automatic (variable gear ratios) | | | | |
|  | 48 city | 45 highway | 46 combined | 50-60% |
| Honda Civic Hybrid - 4 cyl, 1.3 L, Automatic (variable gear ratios) | | | | |
|  | 40 city | 45 highway | 42 combined | 45% |
| Nissan Altima Hybrid - 4 cyl, 2.5 L, Automatic (variable gear ratios) | | | | |
|  | 35 city | 33 highway | 34 combined | 30-55% |
| Toyota Camry Hybrid - 4 cyl, 2.4 L, Automatic (variable gear ratios) | | | | |
|  | 33 city | 34 highway | 34 combined | 35-55% |
| Chevrolet Malibu Hybrid - 4 cyl, 2.4 L, Automatic 4-spd | | | | |
|  | 24 city | 32 highway | 27 combined | 20-25% |
| Saturn Aura Hybrid - 4 cyl, 2.4 L, Automatic 4-spd | | | | |
|  | 24 city | 32 highway | 27 combined | 20-25% |
| Lexus GS 450h - 6 cyl, 3.5 L, Automatic (S6) | | | | |
|  | 22 city | 25 highway | 23 combined | 5% |
| Lexus LS 600h L - 8 cyl, 5 L, Automatic (S8) | | | | |
|  | 20 city | 22 highway | 21 combined | Not Available |

¹MPG data are from fueleconomy.gov








²Percent improvement over comparable conventional gasoline vehicles



2008 Hybrid Sport Utility Vehicles

| | EPA MPG | | | MPG Improvement |
|---|------------|---------------|----------------|-----------------|
| Ford Escape Hybrid FWD - 4 cyl, 2.3 L, Automatic (variable gear ratios) | | | | |
|  | 34 city | 30 highway | 32 combined | 45-60% |
| Mazda Tribute Hybrid 2WD - 4 cyl, 2.3 L, Automatic (variable gear ratios) | | | | |
|  | 34 city | 30 highway | 32 combined | 45-60% |
| Mercury Mariner Hybrid FWD - 4 cyl, 2.3 L, Automatic (variable gear ratios) | | | | |
|  | 34 city | 30 highway | 32 combined | 45-60% |
| Ford Escape Hybrid 4WD - 4 cyl, 2.3 L, Automatic (variable gear ratios) | | | | |
|  | 29 city | 27 highway | 28 combined | 33-45% |
| Mazda Tribute Hybrid 4WD - 4 cyl, 2.3 L, Automatic (variable gear ratios) | | | | |
|  | 29 city | 27 highway | 28 combined | 33-45% |
| Mercury Mariner Hybrid 4WD - 4 cyl, 2.3 L, Automatic (variable gear ratios) | | | | |
|  | 29 city | 27 highway | 28 combined | 33-45% |
| Toyota Highlander Hybrid 4WD - 6 cyl, 3.3 L, Automatic (variable gear ratios) | | | | |
|  | 27 city | 25 highway | 26 combined | 35-40% |

2008 Hybrid Sport Utility Vehicles *(continued)*

| | EPA MPG | | | MPG Improvement |
|---|------------|---------------|----------------|-----------------|
| Lexus RX 400h 2WD - 6 cyl, 3.3 L, Automatic (variable gear ratios) | | | | |
|  | 27 city | 24 highway | 25 combined | 25% |
| Lexus RX 400h 4WD - 6 cyl, 3.3 L, Automatic (variable gear ratios) | | | | |
|  | 26 city | 24 highway | 25 combined | 30% |
| Saturn Vue Hybrid - 4 cyl, 2.4 L, Automatic 4-spd | | | | |
|  | 25 city | 32 highway | 28 combined | 25-50% |
| Chevrolet Tahoe Hybrid 2WD - 8 cyl, 6 L, Automatic (variable gear ratios) | | | | |
|  | 21 city | 22 highway | 21 combined | 30-50% |
| GMC Yukon 1500 Hybrid 2WD - 8 cyl, 6 L, Automatic (variable gear ratios) | | | | |
|  | 21 city | 22 highway | 21 combined | 30-50% |
| Chevrolet Tahoe Hybrid 4WD - 8 cyl, 6 L, Automatic (variable gear ratios) | | | | |
|  | 20 city | 20 highway | 20 combined | 25% |
| GMC Yukon 1500 Hybrid 4WD - 8 cyl, 6 L, Automatic (variable gear ratios) | | | | |
|  | 20 city | 20 highway | 20 combined | 25-45% |



| Diesel Vehicles <i>(All of these vehicles can use up to 5% biodiesel)</i> | | | | |
|---|----------------------|---------------|----------------|------------------------------|
| | EPA MPG ¹ | | | MPG Improvement ² |
| Mercedes-Benz E320 Bluetec - 6 cyl, 3 L, Automatic 7-spd | | | | |
|  | 23 city | 32 highway | 26 combined | 25-35% |
| Mercedes-Benz ML320 CDI 4matic - 6 cyl, 3 L, Automatic 7-spd | | | | |
|  | 18 city | 24 highway | 21 combined | 25-35% |
| Mercedes-Benz R320 CDI 4matic - 6 cyl, 3 L, Automatic 7-spd | | | | |
|  | 18 city | 24 highway | 21 combined | 25-35% |
| Mercedes-Benz GL320 CDI 4matic - 6 cyl, 3 L, Automatic 7-spd | | | | |
|  | 18 city | 24 highway | 20 combined | 10-20% |
| Jeep Grand Cherokee 2WD - 6 cyl, 3 L, Automatic 5-spd | | | | |
|  | 18 city | 23 highway | 20 combined | 10-20% |
| Jeep Grand Cherokee 4WD - 6 cyl, 3 L, Automatic 5-spd | | | | |
|  | 17 city | 22 highway | 19 combined | 20% |
| Volkswagen Touareg - 10 cyl, 5 L, Automatic (S6) | | | | |
|  | 15 city | 20 highway | 17 combined | 20% |
| Volkswagen Jetta – Coming Soon! | | | | |
| MPG data are not yet available for the diesel Volkswagen Jetta | | | | |

¹MPG data are from fueleconomy.gov

²Percent improvement over comparable conventional gasoline vehicles

2007 Flexible-Fuel Vehicles

Chrysler Corporation

| | | |
|------------------------------|-------------------------------|-------------------------|
| Chrysler Sebring | Dodge Avenger | Jeep Commander 2WD |
| Chrysler Sebring Convertible | Dodge Caravan | Jeep Commander 4WD |
| Chrysler Town and Country | Dodge Dakota Pickup 2WD | Jeep Grand Cherokee 2WD |
| Chrysler Aspen 2WD | Dodge Dakota Pickup 4WD | Jeep Grand Cherokee 4WD |
| Chrysler Aspen 4WD | Dodge Durango 2WD | |
| | Dodge Durango 4WD | |
| | Dodge Ram 1500 Pickup 2WD (2) | |
| | Dodge Ram 1500 Pickup 4WD (2) | |

Ford Motor Company

| | | |
|--------------------------|------------------|-----------------------|
| Ford Crown Victoria | Lincoln Town Car | Mercury Grand Marquis |
| Ford F150 STX SE FFV | | |
| Ford F150 Pickup FFV 2WD | | |
| Ford F150 Pickup FFV 4WD | | |

General Motors Corporation

| | | |
|------------------------------------|---|--|
| Chevrolet Impala (2) | GMC Sierra C15 2WD | |
| Chevrolet Uplander | GMC Sierra K15 4WD | |
| Chevrolet Silverado C15 2WD | GMC Yukon 1500 2WD | |
| Chevrolet Silverado K15 4WD | GMC Yukon 1500 4WD | |
| Chevrolet Avalanche 1500 2WD | GMC Yukon XL 1500 2WD | |
| Chevrolet Avalanche 1500 4WD | GMC Yukon XL 1500 4WD | |
| Chevrolet Suburban 1500 2WD | GMC Savana 1500/2500 2WD (Cargo) | |
| Chevrolet Suburban 1500 4WD | GMC Savana 15/25 2WD Conversion (Cargo) | |
| Chevrolet Tahoe 1500 2WD | GMC Savana 1500/2500 AWD (Cargo) | |
| Chevrolet Tahoe 1500 4WD | GMC Savana 1500 AWD Conversion (Cargo) | |
| Chevrolet Van 1500/2500 2WD | GMC Savana 1500/2500 2WD (Passenger) | |
| Chevrolet Van 15/25 2WD Conversion | GMC Savana 1500 AWD (Passenger) | |
| Chevrolet Van 1500/2500 AWD | | |
| Chevrolet Van 1500 AWD Conversion | | |
| Chevrolet Express 1500/2500 2WD | | |
| Chevrolet Express 1500 AWD | | |

Mercedes-Benz

| | | |
|--------------------|--|--|
| Mercedes-Benz C300 | | |
|--------------------|--|--|

Mitsubishi Motors

| | | |
|------------------------------|--|--|
| Mitsubishi Raider Pickup 2WD | | |
| Mitsubishi Raider Pickup 4WD | | |

Nissan Motor Company

| | | |
|-------------------|------------------|--|
| Nissan Armada 2WD | Nissan Titan 2WD | |
| Nissan Armada 4WD | Nissan Titan 4WD | |

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

For more information contact:
EERE Information Center
1-877-EERE-INF (1-877-337-3463)
www.eere.energy.gov